Curriculum Vitae

Kopperi Harishankar
DOB 20-11-1994
Research Associate (I)
Bioengineering and Environmental Sciences Lab
Department of Energy and Environmental Engineering
(DEEE)CSIR-Indian Institute of Chemical Technology (CSIR-IICT) Hyderabad 500007, India
Email: chanty525@gmail.com
Google Scholar: https://scholar.google.com/citations?user=K9HRbGcAAAAJ&hl=en

Career Objective

My research interests in Life Cycle Assessment (LCA) at the process/product design level to identify emission hotspots along the supply chain of technologies by developing low carbon chemicals with net zero emissions in circular economy approach. I have Knowledge on LCA, Thermo-chemical conversion of waste to fuels, Dark fermentation, and Bio-polymers. I want to be a valuable team member by contributing quality ideas for research and development to explore my skills to produce interesting scientific results.

Research Interests

- Design of sustainable roadmap for Net-zero targets
- Sustainable process design for product/process using LCA approach
- Develop decarbonization strategies for Hard-to-Abate sectors and API molecules
- Biomass/MSW/Plastics to bio-fuels and chemicals in circular economy

Education

2021 – 2024*	Ph.D. in Science (Chemical Sciences) Academy of Scientific and Innovative Research (AcSIR) Bioengineering and Environmental Sciences Lab Department of Energy and Environmental Engineering CSIR-Indian Institute of Chemical Technology, Hyderabad, India
2018	Integrated Master of Science (Chemistry) Telangana University, Nizamabad, India **(80%; Distinction)**
2013	Intermediate (Biology, Physics, chemistry) Nagarjuna Junior college, Sangareddy, India **(76%)**
2011	Secondary School Certificate (SSC), Sangareddy, India **(87%)**

Details of PhD work (Pursuing)

Title	**Biogenic-Waste and Plastics Upcycling to Fuels and Chemicals by Assessing Life Cycle Assessment and Planetary Boundary Framework**
Institution/University	Academy of Scientific and Innovative Research (AcSIR), CSIR-Indian Institute ofChemical Technology (CSIR-IICT)
Supervisor	Dr. S. Venkata Mohan, Chief Scientist
E-mail ID	vmohan_s@yahoo.com, svmohan@iict.res.in

Research Experience

Project Title	India's Road to Net-Zero: Technology Imperatives for Sustainability
Project funded by:	iRISE – Thought Leadership Forum; RSC
Supervisor:	Dr. S. Sivaram, Honorary Professor, Emeritus and INSA Emeritus Scientist, Indian Institute of Science Education and Research (IISER), Pune and Dr. S. Venkata Mohan, Chief Scientist, BEES Lab DEEE, CSIR-IICT
Contribution:	• Decarbonization Roadmap to Indian Cement Industry: Net Zero Abatement • Sustainability Analysis
Project Title:	Innovative processes and technologies for Indian pharmaceutical and agricultural sector industries; Sustainable Environment Management Analysis
Project funded by:	Council of Scientific and Industrial Research (CSIR), Govt. of India
Supervisor:	Dr. S. Venkata Mohan, Chief Scientist, BEES Lab DEEE, CSIR-IICT
Contribution:	• Sustainability analysis for APIs and chemicals
Project Title:	Engineering hybrid biological systems for self-sustainable treatment of persistent mobile chemicals in common effluent treatment plant (CETP) wastewater" (GAP 0973)
Project funded by:	Gujrat State Biotechnology Mission, Govt. of India
Supervisor:	Dr. S. Venkata Mohan, Chief Scientist, BEES Lab DEEE, CSIR-IICT
Contribution:	• Optimization process parameters for hybrid biological systems for industrial effluent treatment.
Project Title:	"Nanotechnology Intervention for Water/Wastewater Purification and Treatment" (MLP-0080).
Project funded by:	Council of Scientific and Industrial Research (CSIR), Govt. of India
Supervisor:	Dr. S. Venkata Mohan, Chief Scientist, BEES Lab DEEE, CSIR-IICT
Contribution:	• Treatment of emerging pollutants in wastewater using bio-electro chemical systems
Project Title:	Design, Development and demonstration of Decentralized ETP model for treatment of traditional Handloom/Weaving Cluster Wastewater (TMD (EWO)/ITISE-2020/03(G)
Project funded by:	Department of Science and Technology, Govt. of India
Supervisor:	Dr. S. Venkata Mohan, Chief Scientist, BEES Lab DEEE, CSIR-IICT
Contribution:	• Collaboration with village officials, Establishing the ETP, Analysis, and Proposal drafting
Project Title:	Innovative Algae Platform for Industrial Wastewater Valorization
Project funded by:	Indo-Denmark, Department of Biotechnology (DBT), Govt. of India
Supervisor:	Dr. S. Venkata Mohan, Chief Scientist, BEES Lab DEEE, CSIR-IICT
Contribution:	• Microalgae cultivation in raceway pond, Hydrothermal liquefaction of algae, bioprocess-Hydrogen production, Sustainability Analysis, Report writing
Project Title:	COVID-19 virus surveillance in wastewater
Project funded by:	CSIR-IICT
Supervisor:	Dr. S. Venkata Mohan, Chief Scientist, BEES Lab DEEE, CSIR-IICT
Contribution:	• Protocols and Methodology development for viral RNA detection in wastewater samples, Timely sewage sampling for RNA detection
Project Title:	Strategic biorefinery platform with integrated bioprocess in a self-sustained closed loop for multi-biobased product output(Indo-Korea)
Project funded by:	Indo-Korea, Department of Biotechnology (DBT), Govt. of India
Supervisor:	Dr. S. Venkata Mohan, Chief Scientist, BEES Lab DEEE, CSIR-IICT
Contribution:	• Analysis and report drafting
Project Title:	Waste and Biomass to Value Added Products
Project funded by:	Council of Scientific and Industrial Research (CSIR), Govt. of India
Supervisor:	Dr. S. Venkata Mohan, Chief Scientist, BEES Lab DEEE, CSIR-IICT
Contribution:	• Hydrothermal liquefaction of Biogenic municipal solid waste and Agri-waste biomass

Fellowships and Awards (Scientific/Research Merits)	
2023	**Awarded best Paper Presentation:** "One-Pot Chemo-bio upcycling of Waste Polyethylene Terephthalate (PET) to Bio-based Alcohols in Circular Economy Framework" at the International Conference on Sustainable Energy and Environmental Challenges (VIII SEEC) organized by MNIT, Jaipur on December 4–6, 2023.
2023	**Invited lecture:** Summer School and The International Workshop on Technologies for Sustainable Development (5- 9th June 2023) Organised by UiT, the Arctic University of Norway, Narvik Campus, supported by UiT and funded by Norwegian Research Council at Narvik Campus of the Arctic University of Norway
2023	"**INSC Young Researcher Award -2023**"
2023	**Nominated Student Delegate**: Students Conclave for Technology Vision 2047 Brainstorming Workshop on 2nd May 2023 at Indian Institute of Technology (IIT-H), Hyderabad, Telangana, India
2022	**Student presentation award for excellent research work in the field of biomass**" 30th European Biomass Conference and Exhibition 2022 organized by ETA Florence Renewable Energies, European Union, 12 May 2022.
2022	**Best Poster Presentation Award**: Anoxic/Aerobic integrated biocatalytic process for the Treatment of Real-Field Composite Dye Wastewater of a Handloom Cluster. RMIT-IICT International Workshop on Creating Profound Impact Through Multidisciplinary Collaborations (CPIMC-2022) from 28th to 29th November 2022. (Poster Presentation)
2021	**Certificate of recognition for COVID-19** testing and training as a part of CSIR-CCMBCOVID-19 mitigation efforts from Director-CSIR-CCMB in 2021.
2020	**Recognized by several public media** (Times of India, HANS India, Deccan Cornicle, Eenadu etc and other science articles) for study conducted on COVID-19 in sewage wastewater surveillance.
2019	**Invited Speaker**: Workshop on Q-Dot Water Tech organized by University of Leeds, UK and Royal Society of Chemistry at C-MET Pune, India during 15-16 Nov 2019 on topic **"Waste Valorization: Biorefinery with Circular Bioeconomy"**
2019	**Best Poster Award and Honored by Springer Nature with Euro 100 € as felicitation, ACS Certificate of Excellence:** International Conference on Sustainable Energy and Environmental Challenges (IV SEEC-2019) 27-29 November 2019. CSIR-NEERI, Nagpur, India.
2019	**Best Poster Award with Rs.5000/-Cash Prize:** All India Seminar on 'Recent Developments in Technological Options for Resource Recovery in Chemical Process on 3rd and 4th October, 2019, Hyderabad
2018	**Prestigious Sir C V Raman Fellowship** to work at C V Raman's Research Laboratory, Raman Research Institute, Bangalore. Jan-July 2018 (13,000 INR/month).
2017	**Prestigious Sir C V Raman Fellowship** to work at C V Raman's Research Laboratory, Raman Research Institute, Bangalore. June-July 2017 (13,000 INR/month)

Membership in Academies/Societies/Professional Bodies

- Life Membership of The Biotech Research Society, India (LM 2629)
- Professional Member in INSC Young Researchers (20233YRA176), India

Publications in SCI Journals (Publications-18*; citations- 500*; h-index-9)

1. Abatement on CO_2 Emissions in Cement Industry using Technological Interventions: Towards India 2070; **Harishankar Kopperi,** Swaminathan Sivaram* and S Venkata Mohan* (*Under Process RSC Sustainability*)
2. Exsolution driven enhanced CO2 Photoreduction to Green Methanol via Bi@CeO2 Interface Restructuring (*Under process Nature Catalysis*)
3. Transition Metal Free Synthesis of Lifitegrast Intermediate with Low Carbon Footprint (Under Process: RSC Green Chemistry)
4. **Harishankar Kopperi,** and S. Venkata Mohan. "Catalytic Hydrothermal Deoxygenation of Sugarcane Bagasse for Energy Dense Bio-oil and Aqueous fraction Acidogenesis for Biohydrogen Production." *Bioresource Technology* (2023): 128954. (IF: 11.64) **(Figure 1 selected as journal cover page)**
5. **Harishankar Kopperi,** Manupati Hemalatha, Boda Ravi Kiran, J. Santhosh, and S. Venkata Mohan. "Sustainable consideration for traditional textile handloom cluster/village in pollution abatement–A case study." Environmental Pollution 324 (2023): 121320. (IF: 9.99)
6. Sreeharsha, R.V., **Harishankar Kopperi**., Tejaswini, G.S., Kiran, B.R. and Mohan, S.V., 2023. Catalytic hydrothermal liquefaction of Pongamia pinnata (L.) to produce bio-oil and biochar within a biorefinery framework. *Biomass Conversion and Biorefinery*, pp.1-12.
7. Kommula, B., Prabhu B, R., **Harishankar Kopperi**., Bhat, V.S., Hegde, G. and John, N.S., Diverse Morphologies of Nb2O5 Nanomaterials: A Comparative Study for the Growth Optimization of Elongated Spiky Nb2O5 and Carbon Nanosphere Composite. *Particle & Particle Systems Characterization*, p.2300118.
8. Suresh, G., **Harishankar Kopperi**, and S. Venkata Mohan. "Hydrothermal Processing of Agar Waste to Levulinic acid and Fermentation of Hydrolysate to Bioethanol." *Bioresource Technology* (2023): 129063. (IF: 11.64)
9. **Harishankar Kopperi**, and S. Venkata Mohan* Comparative appraisal of nutrient recovery, bio-crude, and bio-hydrogen production using Coelestrella sp. in a closed- loop biorefinery. Frontiers in bioengineering and biotechnology, 2022, 10, pp.964070-964070. (IF:6.69)
10. **Harishankar Kopperi**, Katakojwala, Ranaprathap, and S. Venkata Mohan* CatalyticHydrothermal Liquefaction of Scenedesmus sp. Biomass Integrated with Dark- Fermentation Bio-crude and Low-Carbon Fuels Production in Biorefinery Approach; Royal Society of Chemistry- Sustainable Energy Fuels, 2022, DOI: 10.1039/D1SE02053F. [Impact factor (IF):6.67]
11. Ravi Kiran Boda, **Harishankar Kopperi** and S. Venkata Mohan, Micro/Nanoplastics Occurrence, Monitoring, Risk Analysis and Remediation strategies: Challenges and Perspectives, Reviews in environmental science and bio/technology. https://doi.org/10.1007/s11157-021-09609-6(0123456789 (IF 16.044)
12. **Harishankar Kopperi**, K. Amulya, and S. Venkata Mohan. "Simultaneous biosynthesis of bacterial polyhydroxy butyrate (PHB) and extracellular polymeric substances (EPS): Process optimization and Scale-up." Bioresource Technology 341 (2021): 125735. (IF:11.642)
13. **Harishankar Kopperi**, Athmakuri Tharak, Manupati Hemalatha, Uday Kiran, C. G. Gokulan, Rakesh K. Mishra, and S. Venkata Mohan. "Defining the methodological approach for wastewater-based epidemiological studies–Surveillance of SARSCoV-2." Environmental Technology & Innovation (2021): 101696. (IF:7.26)
14. Tharak, Athmakuri, **Harishankar Kopperi**, Manupati Hemalatha, Uday Kiran, C. G. Gokulan, Shivranjani Moharir, Rakesh K. Mishra, and S. Venkata Mohan. "Understanding SARS-CoV-2 Infection and Dynamics with Long Term Wastewater based Epidemiological Surveillance." International Journal of Environmental Researchand Public Health 19 (5), 2697(2022). (IF:2.9)
15. Hemalatha, Manupati, Athmakuri Tharak, **Harishankar Kopperi**, Uday Kiran, C. G. Gokulan, Rakesh K. Mishra, and S. Venkata Mohan. "Comprehensive and Temporal Surveillance of SARS-CoV-2 in Urban Water Bodies: Early Signal of Second Wave Onset." CURRENT SCIENCE 123 (8), 987 (2022). (IF:1.9)
16. Hemalatha, Manupati, Uday Kiran, Santosh Kumar Kuncha, **Harishankar Kopperi**, C. G. Gokulan, S. Venkata Mohan, and Rakesh K. Mishra. "Surveillance of SARS- CoV-2 spread using wastewater-

based epidemiology: Comprehensive study." Science of The Total Environment 768 (2021): 144704. (IF:7.963).

17. Prakash, Chander, Sunpreet Singh, **Harishankar Kopperi**, Seeram Ramakrihna, and S. Venkata Mohan. "Comparative job production-based life cycle assessment of conventional and additive manufacturing assisted investment casting of aluminium: A case study." Journal of Cleaner Production 289 (2021): 125164. (IF: 12.297)
18. Mohan, S. Venkata, Manupati Hemalatha, **Harishankar Kopperi**, I. Ranjith, and A. Kiran Kumar. "SARS-CoV-2 in environmental perspective: Occurrence, persistence, surveillance, inactivation and challenges." Chemical Engineering Journal 405 (2021): 126893. (IF:16.5).
19. Katakojwala, Ranaprathap, **Harishankar Kopperi**, Sunil Kumar, and S. Venkata Mohan. "Hydrothermal liquefaction of biogenic municipal solid waste under reduced H2 atmosphere in biorefinery format." Bioresource technology 310 (2020): 123369. (Bioresource Technology IF: 11.64).
20. Amulya, K., **Harishankar Kopperi**, and S. Venkata Mohan. "Tunable production of succinic acid at elevated pressures of CO2 in a high-pressure gas fermentation reactor."Bioresource technology 309 (2020): 123327. (Bioresource Technology IF: 11.64)

Book Chapters

1. R. Katakojwala, **Harishankar. Kopperi**, A. Avanthi, and S. Venkat Mohan, 2021. Hydrothermal Liquefaction of Food Waste: A Potential Resource Recovery Strategy. Sustainable Resource Management, Volume I: Technologies for Recovery and Reuse of Energy and Waste Materials, 1, 21-46.

	Conferences/Paper/Poster Presentations/Workshop
2023	• **Harishankar Kopperi** and S. Venkata Mohan One-Pot Chemo-bio upcycling of Waste Polyethylene Terephthalate (PET) to Bio-based Alcohols in Circular Economy Framework. International Conference on Sustainable Energy and Environmental Challenges (VIII SEEC) organized by Malaviya National Institute of Technology, Jaipur during 04-06, December 2023. • **Harishankar Kopperi** and S. Venkata Mohan. Solid Waste Biorefinery: Integrated Process Development via Hydrothermal Liquefaction and Dark Fermentation, International Conference on Solid Waste 2023: Waste Management in Circular Economy and Climate Resilience (ICSWHK 2023), Hong Kong, 30 May to 2nd June 2023.
2022	• **Harishankar Kopperi,** Triya Mukherjee, Yamini Javvadi, Nagendla Narendra Kumar,Bhandi Murali Mohan, Mohana Krishna Reddy Mudyam, Pratyay Basak, Sunkara V Manorama, S. Venkata Mohan. Tetracycline degradation in Wastewater Using Bio electrochemical System: Degradation Pathway and Fate of Resistance Genes. International Conference on Biotechnology for Sustainable Bioresources and Bioeconomy (BSBB-2022) and XIX Annual Convention of the Biotech Research Society, India (BRSI). Organized by Indian Institute of Technology (IIT), Guwahati, Assam- 781039, India from 7th to 11th December 2022. (Poster and Flash Talk Presentation). • **Harishankar Kopperi** and S. Venkata Mohan. Microalgae-Acidogenesis Platform: Biorefinery for Multi-Product Valorisation. International Conference on Recent Advances in Biotechnology (icRAB-2022), Department of Biotechnology, Department of Chemical Engineering Science Technology & Innovation Hub (STI Hub). Organizedby Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab-144027, Indiafrom 2nd to 4th December 2022 (Oral Presentation -Virtual Mode) • Javvadi Yamini, **Harishankar Kopperi** and S Venkata Mohan. Biodegradable Polymer (Mcl-PHA) Production by Dynamic Feeding Strategy. Symposium on Polymer and Advanced Materials for coatings and Energy (SPACE-2022) organised by CSIR-India Institute of Chemical Technology, Hyderabad, India from 28th to 29th September 2022 (Poster Presentation) • J Santhosh, Manvita Vadrevu, **Harishankar Kopperi**, Boda Ravi Kiran, and S VenkataMohan.

Aerobic-Anoxic Microenvironment for Treatment of Real-Field Composite Textile Dye Wastewater from Handloom Cluster. BRICS-2022 Urbanization Green Innovation Young Scientist Conference on 10th May 2022, Beijing, China. (Oral Presentation-Virtual Mode).

- **Harishankar Kopperi**. Sustainable Design and Development of Decentralized ETP/STP Models for Wastewater Management" – "INK@WASH – Platform for Innovators and Startups" on 5th to 6th May 2022 at ICICI Bank Towers, Nanakaramguda, Hyderabad, Telangana - 500032, India. (*Poster Presentation*).

- **Harishankar Kopperi** and S. Venkata Mohan. Sustainable Valorisation of Scenedesmus sp. Biomass through Catalytic Hydrothermal Liquefaction and Dark- fermentation in a Biorefinery Approach. 30th European Biomass Conference andExhibition 2022 organized by ETA Florence Renewable Energies, European Union.

- J Santhosh, Manvita Vadrevu, **Harishankar Kopperi,** Boda Ravi Kiran, S Venkata Mohan: Aerobic-Anoxic Microenvironment for Treatment of Real-Field Composite Textile Dye Wastewater from Handloom Cluster. BRICS Green Future –Conferences for Young Scientists Conference on Challenges, solutions and research priorities for sustainable environment, 10 May 2022.

2021

- **Harishankar Kopperi** and S. Venkata Mohan: Integrated Microalgae Biorefinery Approach for Dairy Wastewater Treatment, Macromolecule and Bio-gas Production using Coelestrella sp. International Conference on Biotechnology for Resource Efficiency, Energy, Environment, Chemicals and Health (BRE3CH-2021) from December 1-4, 2021 (Poster Presentation)

- **Harishankar Kopperi** and S. Venkata Mohan: Integrated Microalgae Biorefinery Approach for Dairy Wastewater Treatment, Macromolecule and Bio-gas Production using Coelestrella sp.: International Conference on International Conference on Biotechnology and Interdisciplinary Technologies, (ICBIT 2021), November 8 2021- November 12 2021. Poster Presentation.

- Manvita Vadrevu, J Santhosh, **Harishankar Kopperi**, Boda Ravi Kiran, Poonam Kumari, Ashutoshsinh Kaushik and Dr. S Venkata Mohan: Aerobic-Anoxic Microenvironment for Treatment of Real-Field Composite Textile Dye Wastewater from Handloom Cluster; International Conference on International Conference on Biotechnology and Interdisciplinary Technologies, (ICBIT 2021), November 8 2021- November 12 2021. Oral Presentation.

- Yamini Javaddi, **Harishankar Kopperi, S. Venkata Mohan**: Volarazation of CarbonRich Effluent for Production of Mcl-PHA by Aerobic Dynamic FeedingStrategy. International Conference on Advances in SustainableResearch for Energy and Environmental Management (ASREEM-2021) August 06- 08th, 2021

- J Santhosh, **Harishankar Kopperi, S. Venkata Mohan**Identification, Quantification and Characteristics of Microplastics fromWastewater and Lake Sediments. International Conference on Advances in Sustainable Research for Energy and Environmental Management (ASREEM-2021) August 06- 08th, 2021.

- **HarishankarKopperi**, Ranaprathap Katakojwala and S. Venkata Mohan: Hydrothermal Liquefaction of Algal biomass: Catalysis and reductive atmospheres roleonProduct Profile. International conference on Biotechnology for sustainable Agriculture, Environment and Health (BSAEH-2021), Virtual conference, BRSI 04-08April 2021.

- **Harishankar Kopperi,** K Amulya, S. Venkata Mohan**:** Concomitant production of Extracellular polymeric substances (EPS) and Polyhydroxyalkanoate (PHA) fromisolated *Providencia sp:* Characterization and composite preparation. "International Conference on Sustainable Biowaste Management 2021 (SBM2021)" Virtual conference, 12-14 April 2021, Hongkong.

2019

- **Harishankar Kopperi,** K Amulya, S. Venkata Mohan: Polyhydroxyalkanoate (PHA) and

	Extracellular Polymeric Substances (EPS) production from *Pseudomonas koreensis:* Characterization and Composite preparation. International Conference on Sustainable Energy and Environmental Challenges (IV SEEC-2019) 27-29 November 2019. CSIR-NEERI, Nagpur, India • **Harishankar Kopperi**, K. Amulya and S. Venkata Mohan Extracellular Polymeric Substances (EPS) and Polyhydroxyalkanoates (PHA) Production from Pseudomonas koreensis: Characterization and Composite Preparation, at All India Seminar on 'Recent Developments in Technological Options for Resource Recovery in Chemical Process Industry' on 3 rd and 4 th October, 2019, Hyderabad. • K. Amulya, **Harishankar Kopperi**, and S. Venkata Mohan, High Pressure Gas Fermentation for Bio-succinic Acid Production through CO 2 Utilization, at All India Seminar on 'Recent Developments in Technological Options for Resource Recovery in Chemical Process Industry' on 3 rd and 4 th October, 2019, Hyderabad. • Amulya Kotamraju, **Harishankar Kopperi**, S Venkata Mohan. Effective Conversion of CO 2 to Succinic Acid Production under Mild Pressure with Citrobacteramalonaticus. International conference on Advances in Renewable Energy and Green Technology (ICARE-2019) held by Vellore Institute of Technology (VIT University) from 22 nd August – 24 th August, 2019 at Vellore, Tamil Nadu, India **(Oralpresentation)**. • **Harishankar Kopperi**, K. Amulya and S. Venkata Mohan; National conference on Indian Institute of Chemical Technology, Hyderabad (TRTPE-July 2019): Extracellular polymeric substances (EPS) and polyhydroxyalkanoate (PHA) production from *Pseudomonas koreensis:* characterization and composite preparation **(Poster presentation)**.
2018	• National Conference on Innovations in Chemical and Pharmaceutical Sciences. 14&15,Feb, 2018 at Telangana University, Nizamabad, Telangana: Nano particles as Therapeutic Agents for Cancer Therapy.
2016	• National Symposium on Recent Advances in Chemical and Material Science (RACMS-2016) at Rajiv Gandhi University of Knowledge Technologies **IIIT** Basar, Telangana in August-2016.

Outreach and Co-curricular activities (Scientific, Artistic, Societal or Research Merits)

2020	**Participated-** Indo-UK Workshop on 'Industrial Bioprocess Engineering and Biorefinery', CSIR- Indian Institute of Chemical Technology, 4-6th March 2020
2019	**Participated** CSIR-IICT Science outreach program "JIGYASA" at Telangana Model Residential School and College, Kamareddy District, Telangana in September 2022. Skill Development activities for to demonstrate to students visiting CSIR-Indian Institute of Chemical gy.

Familiar with experiences and characterization techniques

- Handling, designing and operating High pressure and temperature (HTL) reactors
- Photosynthetic analysis such as Dual PAM, Multi cultivator, Bioprocessing fermentersand pure bacterial cultures.
- Strong ability to interpret analytical results like HPLC, NMR, MASS, TGA/DTA, DSC,POM, FTIR, XRD, FESEM, GC-MS, HR-MS, UV-Vis and TOC

Computer skills

- Sima Pro; Open LCA (Life cycle analysis)
- Post Graduate Diploma in Computer Application

Countries Visited

Norway (5-9 June, 2023, The Arctic University, Narvik Campus)

References

Dr. S. Venkata Mohan (PhD Research Supervisor)
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